

the "new" and "old" world. The "new" world is the world of the future, the world of the "new" world. The "old" world is the world of the past, the world of the "old" world. The "new" world is the world of the future, the world of the "new" world. The "old" world is the world of the past, the world of the "old" world.

Methods are described that enable host devices of a multicast IP network to reliably join multicast group address(es) in talkgroup or point-to-point calls. For a talkgroup call, a sourcing host sends “hello” packets or payload to one or more network devices, addressed to a multicast group address. The receiving host issues a join command to the one or more network devices in an attempt to reliably join the multicast group address. If any packets are received by the receiving host within a designated time period associated with the attempt, the receiving host is reliably joined to the multicast group address. For a point-to-point call, a controller sends a pair of multicast group addresses, one designated for sourcing packets and the other designated for receiving packets, to a first and second host participating in the point-to-point call. The designated “source” and “receive” multicast group address are complementary for the first and second hosts. When the first or second host is acting as a source, it sends hello packets or payload addressed to its designated “source” multicast group address. When the first or second host is acting as a receiver, it attempts to join its designated “receive” multicast group address. The first or second host acting as a receiver knows that it is reliably joined to its designated “receive” multicast group address if it receives any packets addressed to that address within a designated time period.

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